Cumulative Index

For Vol. 1, No. 1 and 2; and Vol. 2, No. 1, 2, 3, and 4.

Alloy Systems (Evaluations, and Comments and Addenda)

An asterisk (*) indicates that Phasemaps are included in the tear-out section of the *Bulletin*.

Ag-Al* ... 1(1) 36-41, 1(2) 23
Ag-Al-Cu ... 1(1) 34-35
Ag-Au* ... 1(2) 45-47
Ag-Au-Ge ... 1(2) 44
Ag-Au-Pb ... 1(2) 54-56
Ag-Bi* ... 1(2) 62-64
Ag-Bi-Cu ... 1(2) 62
Ag-Bi-Pb ... 1(2) 64-67
Ag-Cd-Cu-Zn ... 2(2) 228-230
Ag-Cu* ... 1(1) 41-45, 1(2) 23
Ag-Ge* ... 1(2) 47-51
Ag-Pb* ... 1(2) 56-59, 2(1) 81-83
Ag-V ... 2(3) 343-344
Al-Au* ... 2(1) 70-75, 2(2) 172
Al-Ba* ... 2(3) 351-353
Al-Be* ... 1(1) 49-50
Al-Be-Cu ... 1(1) 46-48
Al-Bi* ... 1(1) 54-56
Al-Bi-Cu ... 1(1) 53-54
Al-Cd* ... 1(1) 60-62
Al-Cd-Cu ... 1(1) 58-59
Al-Ce ... 2(2) 224-225
Al-Cu ... 1(1) 27-33, 1(2) 23
Al-Cu-Ge* ... 1(2) 64
Al-Cu-In ... 1(1) 70-72
Al-Cu-Pb ... 1(1) 78
Al-Cu-Sn ... 1(1) 82-84
Al-Gd* ... 2(2) 215-217
Al-Ge* ... 1(1) 65-68
Al-Ho* ... 2(2) 217-219
Al-In* ... 1(1) 73-76
Al-La* ... 2(2) 219-221
Al-Li* ... 2(3) 353-356
Al-Mo ... 1(2) 71-75
Al-Nb* ... 2(1) 75-81
Al-Pb* ... 1(1) 79-81
Al-Sc* ... 2(2) 222-223, 2(4) 442
Al-Sn* ... 1(1) 85-87
As-Mo ... 1(2) 76-78
Au-Be* ... 2(4) 478-479
Au-Bi* ... 2(4) 479-481
Au-Ga* ... 2(3) 356-358
Au-Ge* ... 1(2) 51-54
Au-Pb ... 1(2) 59-62
Au-Pd* ... 2(4) 482-484
Au-Pt* ... 2(1) 66-70
Au-Si* ... 2(3) 359-362
Au-V* ... 2(3) 344-347
B-Cr ... 2(1) 108-109
B-Cr-Mn ... 2(1) 107
B-Mn ... 2(1) 109-110
Be-Cu ... 1(1) 50-52, 2(1) 27, 28
Bi-Cu ... 1(1) 57
Bi-Pa ... 2(4) 484-485
Bi-Pb ... 1(2) 67-70
Cd-Cu ... 1(1) 62-63
Cd-Np ... 2(4) 485-488
Cd-Pb* ... 2(1) 83-86
Cd-U* ... 1(2) 97-99
Ce ... 2(2) 233-234
Ce-La* ... 2(4) 445-447
Cr-Cu-Fe-Ni ... 2(2) 227
Cr-Fe ... 2(1) 99-100, 2(3) 299
Cr-Fe-Mn ... 2(1) 103-104
Cr-Fe-Ni* ... 2(1) 89-99
Cr-Mn ... 2 (1) 104-105, 2 (3) 299-300, 2 (4) 439-440
Cr-Ni ... 2(1) 100-101, 2(3) 299
Cr-Ti* ... 2(2) 174-181
Cr-V* ... 2(4) 469-473
Cu-Ge ... 1(1) 69-70
Cu-In ... 1(1) 76-77, 1(2) 23
Cu-La* ... 2(3) 302-305
Cu-Mg-Ti ... 2(2) 226
Cu-Nb* ... 2(4) 455-460
Cu-Pb ... 1(1) 81-82
Cu-Rh* ... 2(4) 460-462
Cu-Se* ... 2(3) 305-315
Cu-Sn ... 1(1) 87-89
Cu-V* ... 2(3) 348-351
Cu-Y* ... 2(3) 315-319
Dy-La ... 2(4) 447-448
Fe-Mn ... 2(1) 106, 2(3) 299-300, 2(4) 439-440
Fe-Ni ... 2(1) 102, 2(3) 299
Fe-Ti* ... 2(3) 320-334
Ga-Pu ... 2(4) 488-490
Ga-V* ... 2(2) 201-205
Gd-La* ... 2(4) 448-451
Gd-Mo ... 1(2) 78-79
Ge-V* ... 2(2) 205-209
H ... 2(3) 362-366
H-U* ... 1(2) 99-106, 2(2) 172
Hf-Ti* ... 2(2) 181-185
Hg-U* ... 1(2) 106-108
Ho-La ... 2(4) 451-452
I-Mo ... 1(2) 80-81
La-Nd* ... 2(4) 452-453
La-Tb ... 2(4) 454-455
Lr-Mo ... 1(2) 81-82
Mg-U* ... 1(2) 108-109
Mn ... 2(1) 113-114
Mn-Ni ... 2(1) 27, 110-112
Mn-Ti* ... 2(3) 334-343
Mn-V* ... 2(4) 473-478
Mo-N ... 1(2) 82-85
Mo-O ... 1(2) 85-89
Mo-Pt ... 1(2) 89-92
Mo-S ... 1(2) 93-95
Mo-Sn ... 1(2) 96-97
Mo-Ti* ... 2(2) 185-192
Nb-Ti* ... 2(1) 55-61
Pb-Sb* ... 2(1) 86-89
Pb-V ... 2(2) 209-210
Re-Ti* ... 2(4) 462-466
Ru-U ... 2(4) 490-491
Sb-U* ... 1(2) 109-110
Si-V* ... 2(1) 42-48
Sn-V* ... 2(2) 210-214
Ta-Ti* ... 2(1) 62-66
Tc-Ti* ... 2(4) 466-469
Ti-V* ... 2(1) 48-55
Ti-W* ... 2(2) 192-196
Ti-Zr* ... 2(2) 197-201
U-Zn* ... 1(2) 110-113
V ... 2(1) 40-41, 2(2) 172

Activities *See Phase Diagram Activities*
Aldinger, F.: Comprehensive Handbook of Ternary Alloy Phase Diagrams ... 1(2) 36-40
Al-Fe-Mn Austenitic Stainless Alloy, An ... 1(2) 26
Alloy Phase Diagram Data Committee of the Metals Society of London, The ... 1(2) 17
Alloy Solidification in Systems Containing a Miscibility Gap ... 2(2) 158
Alloy Systems (Evaluations, and Comments and Addenda) *See box*
Alloys in Metastable Equilibrium ... 1(2) 26
Application of phase Diagrams in Solidification and Casting Problems ... 2(4) 423-424
Ashtakala, S.
Ag-Pb (Silver-Lead) System ... 2(1) 81-83
Cd-Pb (Cadmium-Lead) System ... 2(1) 83-86
Pb-Sb (Lead-Antimony) System ... 2(1) 86-89
Atomic Size Parameters for the Elements ... 2(4) 527-528
Bale, C. W. *See Ashtakala, S.*
Banerji, S. K.: An Al-Fe-Mn Austenitic Stainless Alloy ... 1(2) 26
Be-Cu (Beryllium-Copper) System: Metastable Solvi ... 2(1) 28
Bennett, L. H.: The Centennial of the Gibbs-Konovalov Rule for Congruent Points ... 2(1) 29-34
Bhansali, K. J.: Use of Phase Diagrams in Hardfacing Alloy Research ... 2(3) 280
Binary Phase Diagram Evaluation Program, The ... 1(2) 32-34
Binary Phase Diagrams of Transition Elements (includes wall chart) ... 2(1) 35-38
Boettinger, W. J.,
Application of Phase Diagrams in Solidification and Casting Problems ... 2(4) 423-424
Bookshelf *See Phase Diagram Bookshelf*
Brandes, E. A.
B-Cr-Mn (Boron-Chromium-Manganese) System ... 2(1) 107
B-Mn (Boron-Manganese) System ... 2(1) 109-110
Cr-Fe-Mn (Chromium-Iron-Manganese) System ... 2(1) 103-104
Cr-Mn (Chromium-Manganese) System ... 2(1) 104-105

Cumulative Index

For Vol. 1, No. 1 and 2; and Vol. 2, No. 1, 2, 3, and 4.

Alloy Systems (Evaluations, and Comments and Addenda)

An asterisk (*) indicates that Phasemaps are included in the tear-out section of the *Bulletin*.

Ag-Al* ... 1(1) 36-41, 1(2) 23
Ag-Al-Cu ... 1(1) 34-35
Ag-Au* ... 1(2) 45-47
Ag-Au-Ge ... 1(2) 44
Ag-Au-Pb ... 1(2) 54-56
Ag-Bi* ... 1(2) 62-64
Ag-Bi-Cu ... 1(2) 62
Ag-Bi-Pb ... 1(2) 64-67
Ag-Cd-Cu-Zn ... 2(2) 228-230
Ag-Cu* ... 1(1) 41-45, 1(2) 23
Ag-Ge* ... 1(2) 47-51
Ag-Pb* ... 1(2) 56-59, 2(1) 81-83
Ag-V ... 2(3) 343-344
Al-Au* ... 2(1) 70-75, 2(2) 172
Al-Ba* ... 2(3) 351-353
Al-Be* ... 1(1) 49-50
Al-Be-Cu ... 1(1) 46-48
Al-Bi* ... 1(1) 54-56
Al-Bi-Cu ... 1(1) 53-54
Al-Cd* ... 1(1) 60-62
Al-Cd-Cu ... 1(1) 58-59
Al-Ce ... 2(2) 224-225
Al-Cu ... 1(1) 27-33, 1(2) 23
Al-Cu-Ge* ... 1(2) 64
Al-Cu-In ... 1(1) 70-72
Al-Cu-Pb ... 1(1) 78
Al-Cu-Sn ... 1(1) 82-84
Al-Gd* ... 2(2) 215-217
Al-Ge* ... 1(1) 65-68
Al-Ho* ... 2(2) 217-219
Al-In* ... 1(1) 73-76
Al-La* ... 2(2) 219-221
Al-Li* ... 2(3) 353-356
Al-Mo ... 1(2) 71-75
Al-Nb* ... 2(1) 75-81
Al-Pb* ... 1(1) 79-81
Al-Sc* ... 2(2) 222-223, 2(4) 442
Al-Sn* ... 1(1) 85-87
As-Mo ... 1(2) 76-78
Au-Be* ... 2(4) 478-479
Au-Bi* ... 2(4) 479-481
Au-Ga* ... 2(3) 356-358
Au-Ge* ... 1(2) 51-54
Au-Pb ... 1(2) 59-62
Au-Pd* ... 2(4) 482-484
Au-Pt* ... 2(1) 66-70
Au-Si* ... 2(3) 359-362
Au-V* ... 2(3) 344-347
B-Cr ... 2(1) 108-109
B-Cr-Mn ... 2(1) 107
B-Mn ... 2(1) 109-110
Be-Cu ... 1(1) 50-52, 2(1) 27, 28
Bi-Cu ... 1(1) 57
Bi-Pa ... 2(4) 484-485
Bi-Pb ... 1(2) 67-70
Cd-Cu ... 1(1) 62-63
Cd-Np ... 2(4) 485-488
Cd-Pb* ... 2(1) 83-86
Cd-U* ... 1(2) 97-99
Ce ... 2(2) 233-234
Ce-La* ... 2(4) 445-447
Cr-Cu-Fe-Ni ... 2(2) 227
Cr-Fe ... 2(1) 99-100, 2(3) 299
Cr-Fe-Mn ... 2(1) 103-104
Cr-Fe-Ni* ... 2(1) 89-99
Cr-Mn ... 2 (1) 104-105, 2 (3) 299-300, 2 (4) 439-440
Cr-Ni ... 2(1) 100-101, 2(3) 299
Cr-Ti* ... 2(2) 174-181
Cr-V* ... 2(4) 469-473
Cu-Ge ... 1(1) 69-70
Cu-In ... 1(1) 76-77, 1(2) 23
Cu-La* ... 2(3) 302-305
Cu-Mg-Ti ... 2(2) 226
Cu-Nb* ... 2(4) 455-460
Cu-Pb ... 1(1) 81-82
Cu-Rh* ... 2(4) 460-462
Cu-Se* ... 2(3) 305-315
Cu-Sn ... 1(1) 87-89
Cu-V* ... 2(3) 348-351
Cu-Y* ... 2(3) 315-319
Dy-La ... 2(4) 447-448
Fe-Mn ... 2(1) 106, 2(3) 299-300, 2(4) 439-440
Fe-Ni ... 2(1) 102, 2(3) 299
Fe-Ti* ... 2(3) 320-334
Ga-Pu ... 2(4) 488-490
Ga-V* ... 2(2) 201-205
Gd-La* ... 2(4) 448-451
Gd-Mo ... 1(2) 78-79
Ge-V* ... 2(2) 205-209
H ... 2(3) 362-366
H-U* ... 1(2) 99-106, 2(2) 172
Hf-Ti* ... 2(2) 181-185
Hg-U* ... 1(2) 106-108
Ho-La ... 2(4) 451-452
I-Mo ... 1(2) 80-81
La-Nd* ... 2(4) 452-453
La-Tb ... 2(4) 454-455
Lr-Mo ... 1(2) 81-82
Mg-U* ... 1(2) 108-109
Mn ... 2(1) 113-114
Mn-Ni ... 2(1) 27, 110-112
Mn-Ti* ... 2(3) 334-343
Mn-V* ... 2(4) 473-478
Mo-N ... 1(2) 82-85
Mo-O ... 1(2) 85-89
Mo-Pt ... 1(2) 89-92
Mo-S ... 1(2) 93-95
Mo-Sn ... 1(2) 96-97
Mo-Ti* ... 2(2) 185-192
Nb-Ti* ... 2(1) 55-61
Pb-Sb* ... 2(1) 86-89
Pb-V ... 2(2) 209-210
Re-Ti* ... 2(4) 462-466
Ru-U ... 2(4) 490-491
Sb-U* ... 1(2) 109-110
Si-V* ... 2(1) 42-48
Sn-V* ... 2(2) 210-214
Ta-Ti* ... 2(1) 62-66
Tc-Ti* ... 2(4) 466-469
Ti-V* ... 2(1) 48-55
Ti-W* ... 2(2) 192-196
Ti-Zr* ... 2(2) 197-201
U-Zn* ... 1(2) 110-113
V ... 2(1) 40-41, 2(2) 172

Activities *See Phase Diagram Activities*
Aldinger, F.: Comprehensive Handbook of Ternary Alloy Phase Diagrams ... 1(2) 36-40
Al-Fe-Mn Austenitic Stainless Alloy, An ... 1(2) 26
Alloy Phase Diagram Data Committee of the Metals Society of London, The ... 1(2) 17
Alloy Solidification in Systems Containing a Miscibility Gap ... 2(2) 158
Alloy Systems (Evaluations, and Comments and Addenda) *See box*
Alloys in Metastable Equilibrium ... 1(2) 26
Application of phase Diagrams in Solidification and Casting Problems ... 2(4) 423-424
Ashtakala, S.
Ag-Pb (Silver-Lead) System ... 2(1) 81-83
Cd-Pb (Cadmium-Lead) System ... 2(1) 83-86
Pb-Sb (Lead-Antimony) System ... 2(1) 86-89
Atomic Size Parameters for the Elements ... 2(4) 527-528
Bale, C. W. *See Ashtakala, S.*
Banerji, S. K.: An Al-Fe-Mn Austenitic Stainless Alloy ... 1(2) 26
Be-Cu (Beryllium-Copper) System: Metastable Solvi ... 2(1) 28
Bennett, L. H.: The Centennial of the Gibbs-Konovalov Rule for Congruent Points ... 2(1) 29-34
Bhansali, K. J.: Use of Phase Diagrams in Hardfacing Alloy Research ... 2(3) 280
Binary Phase Diagram Evaluation Program, The ... 1(2) 32-34
Binary Phase Diagrams of Transition Elements (includes wall chart) ... 2(1) 35-38
Boettinger, W. J.,
Application of Phase Diagrams in Solidification and Casting Problems ... 2(4) 423-424
Bookshelf *See Phase Diagram Bookshelf*
Brandes, E. A.
B-Cr-Mn (Boron-Chromium-Manganese) System ... 2(1) 107
B-Mn (Boron-Manganese) System ... 2(1) 109-110
Cr-Fe-Mn (Chromium-Iron-Manganese) System ... 2(1) 103-104
Cr-Mn (Chromium-Manganese) System ... 2(1) 104-105

Fe-Mn (Iron-Manganese) System ..... 2(1) 106
Mn-Ni (Manganese-Nickel) System ..... 2(1) 110-112
Properties of Manganese ..... 2(1) 113-114
Brazing ..... 2(1) 27
Brewer, L.
Al-Mo (Aluminum-Molybdenum) System ..... 1(2) 71-75
As-Mo (Arsenic-Molybdenum) System ..... 1(2) 76-78
Compilation of Thermodynamic and Phase Information for the Binary Systems of Molybdenum ..... 1(2) 40-42
Gd-Mo (Gadolinium-Molybdenum) System ..... 1(2) 78-79
I-Mo (Iodine-Molybdenum) System ..... 1(2) 80-81
Lr-Mo (Lawrencium-Molybdenum) System ..... 1(2) 81-82
Mo-N (Molybdenum-Nitrogen) System ..... 1(2) 82-85
Mo-O (Molybdenum-Oxygen) System ..... 1(2) 85-89
Mo-Pt (Molybdenum-Platinum) System ..... 1(2) 89-92
Mo-S (Molybdenum-Sulfur) System ..... 1(2) 93-95
Mo-Sn (Molybdenum-Tin) System ..... 1(2) 96-97
Cahn, J. W.
Alloys in Metastable Equilibrium ..... 1(2) 26
Obtaining Inferences About Relative Stability and Metastable Phase Sequences From Phase Diagrams ..... 1(2) 27-32
Some Additional Thoughts on Metastable Hierarchies ..... 2(2) 171-172
The Centennial of the Gibbs-Konovalov Rule for Congruent Points ..... 2(1) 29-34
Calphad IX, May 1980 ..... 1(2) 18-20
Calphad X, May 1981 ..... 2(4) 424-426
Calvert, L.D.: The Pearson Symbol ..... 2(2) 153-157
Carbide Tools ..... 2(1) 27
Carlson, O. N.: Cu-V (Copper-Vanadium) System ..... 2(3) 348-351
Casting ..... 2(1) 26
Centennial of the Gibbs-Konovalov Rule for Congruent Points, The ..... 2(1) 29-34
Chakrabarti, D. J.
Cu-La (Copper-Lanthanum) System ..... 2(3) 302-305
Cu-Nb (Copper-Niobium) System ..... 2(4) 455-460
Cu-Rh (Copper-Rhodium) System ..... 2(4) 460-462
Cu-Se (Copper-Selenium) System ..... 2(3) 305-315
Cu-Y (Copper-Yttrium) System ..... 2(3) 315-319
Chang, Y. A.
Ag-Al-Cu (Silver-Aluminum-Copper) System ..... 1(1) 34-35
Al-Be-Cu (Aluminum-Beryllium-Copper) System ..... 1(1) 46-48
Al-Bi-Cu (Aluminum-Bismuth-Copper) System ..... 1(1) 53-54
Al-Cd-Cu (Aluminum-Cadmium-Copper) System ..... 1(1) 58-59
Al-Cu-Ge (Aluminum-Copper-Germanium) System ..... 1(1) 64
Al-Cu-In (Aluminum-Copper-Indium) System ..... 1(1) 70-72
Al-Cu-Pb (Aluminum-Copper-Lead) System ..... 1(1) 78
Al-Cu-Sn (Aluminum-Copper-Tin) System ..... 1(1) 82-84
Chinese Compilation of Precious Metal Alloy Phase Diagrams ..... 2(1) 26
Chiotti, P.
Bi-Pa (Bismuth-Protactinium) System ..... 2(4) 484-485
Cd-Np (Cadmium-Neptunium) System ..... 2(4) 485-488
Ga-Pu (Gallium-Plutonium) System ..... 2(4) 488-490
Cd-U (Cadmium-Uranium) System ..... 1(2) 97-99
H-U (Hydrogen-Uranium) System ..... 1(2) 99-106
Hg-U (Mercury-Uranium) System ..... 1(2) 106-108
Mg-U (Magnesium-Uranium) System ..... 1(2) 108-109
Ru-U (Ruthenium-Uranium) System ..... 2(4) 490-491
Sb-U (Antimony-Uranium) System ..... 1(2) 109-110
U-Zn (Uranium-Zinc) System. 1(2) 110-113
CODATA Task Group on Thermophysical Properties of Solids ..... 1(2) 20-22
Committee News
International Council on Phase Diagrams ..... 1(1) 4
Compilation of Thermodynamic and Phase Information for the Binary Systems of Molybdenum ..... 1(2) 40-42
Comprehensive Handbook of Ternary Alloy Phase Diagrams ..... 1(2) 36-40
Conventions for Composition Conversion ..... 1(1) 17-18
Corrosion Resistance of Lead ..... 2(2) 158
Coulomb, P. *See Lasserre, A.*
Cr-Fe, Fe-Ni and Cr-Ni Phase Diagrams ..... 2(3) 299-300
Cr-Mn and Fe-Mn Phase Diagrams ..... 2(3) 299-300
Critical-Evaluation of Binary Rare-Earth Phase Diagrams ..... 2(4) 444
Crystal Structures of the Elements at 25 °C ..... 2(3) 401-402
Discussion of Methods of Calculating Phase Diagrams ..... 2(3) 265-268
Discussion on the Hierarchy of Metastable Phases ..... 2(2) 171
Drits, M. E., *et al.*
Ag-Cd-Cu-Zn (Silver-Cadmium-Copper-Zinc) System ..... 2(2) 228-230
Cr-Cu-Fe-Ni (Chromium-Copper-Iron-Nickel) System ..... 2(2) 227
Cu-Mg-Ti (Copper-Magnesium-Titanium) System ..... 2(2) 226
Effect of Continuous Transformations on Phase Diagrams, The ..... 2(4) 412-422
Effect of Magnetic Transformations on Phase Diagrams, The ..... 2(4) 406-412
Elliott, R. P.
Ag-Al (Silver-Aluminum) System ..... 1(1) 36-39
Ag-Au (Silver-Gold) System ..... 1(2) 45-46
Ag-Bi (Silver-Bismuth) System ..... 1(2) 62-63
Ag-Cu (Silver-Copper) System ..... 1(1) 41-44
Ag-Ge (Silver-Germanium) System ..... 1(2) 47-49
Ag-Pb (Silver-Lead) System ..... 1(2) 56-59
Al-Au (Aluminum-Gold) System ..... 2(1) 70-73
Al-Ba (Aluminum-Barium) System ..... 2(3) 351-352
Al-Be (Aluminum-Beryllium) System ..... 1(1) 49-50
Al-Bi (Aluminum-Bismuth) System ..... 1(1) 54-56
Al-Cd (Aluminum-Cadmium) System ..... 1(1) 60-61
Al-Gd (Aluminum-Gadolinium) System ..... 2(2) 215-216
Al-Ge (Aluminium-Germanium) System ..... 1(1) 65-66
Al-Ho (Aluminum-Holmium) System ..... 2(2) 217-219
Al-In (Aluminum-Indium) System ..... 1(1) 73-75
Al-La (Aluminum-Lanthanum) System ..... 2(2) 219-221
Al-Li (Aluminum-Lithium) System ..... 2(3) 353-355
Al-Nb (Aluminum-Niobium) System ..... 2(1) 75-78
Al-Pb (Aluminum-Lead) System ..... 1(1) 79-80
Al-Sc (Aluminum-Scandium) System ..... 2(2) 222-223
Al-Sn (Aluminum-Tin) System ..... 1(1) 85-86
Au-Ga (Gold-Gallium) System ..... 2(3) 356-357
Au-Be (Gold-Beryllium) System ..... 2(4) 478-479
Au-Bi (Gold-Bismuth) System ..... 2(4) 479-481
Au-Ge (Gold-Germanium) System ..... 1(2) 51-52
Au-Pd (Gold-Palladium) System ..... 2(4) 482-484
Au-Si (Gold-Silicon) System ..... 2(3) 359-360
Evaluations of Alloy Systems *See box*
Eutectic Superalloys ..... 1(2) 26
Ferro, R.
Al-Mo crystal structure data ... 1(2) 74-75
As-Mo crystal structure data ..... 1(2) 77
Mo-N crystal structure data .... 1(2) 84-85
Mo-O crystal structure data .... 1(2) 88-89
Mo-Pt crystal structure data ..... 1(2) 92
Mo-S crystal structure data .... 1(2) 94-95
Flint, R. F. *See Brandes, E. A.*
Furnace Heating Elements ..... 2(1) 27
Garvin, D.: Thermodynamic Properties of the Elements ... 2(2) 261-262
Giessen, W. C.
Metastable Ag-Al ..... 1(1) 38-39
Metastable Ag-Cu ..... 1(1) 43-44
Be-Cu (Beryllium-Copper) System ..... 1(1) 50-51
Glossary of Terms
Definitions of Terms for a Thermodynamic Data Bank — Part 1 ..... 2(2) 231-232
Glossary of Terms, Comments on ..... 2(4) 440-441
Goldberg, D. *See Chang, Y. A.*
Goodman, D. A.: The Centennial of the Gibbs-Konovalov Rule for Congruent

Cumulative Index

Points ..... 2(1) 29-34
Cr-Mn and Fe-Mn Phase Diagrams ..... 2(3) 299-300
Gschneidner, Jr., K. A.
Al-Ce (Aluminum-Cerium) System ..... 2(2) 224-225
Ce-La (Cerium-Lanthanum) System ..... 2(4) 445-447
Dy-La (Dysprosium-Lanthanum) System ..... 2(4) 447-448
Gd-La (Gadolinium-Lanthanum) System ..... 2(4) 448-451
Ho-La (Holmium-Lanthanum) System ..... 2(4) 451-452
La-Nd (Lanthanum-Neodymium) System ..... 2(4) 452-453
La-Tb (Lanthanum-Terbium) System ..... 2(4) 454-455
Properties of Cerium ..... 2(2) 233-234
Rare Earth-Aluminum Alloys .... 2(2) 158
Hellawell, A.: Alloy Solidification in Systems Containing a Miscibility Gap ..... 2(2) 159
Henig, E.-Th.
Ag-Bi-Cu (Silver-Bismuth-Copper) System ..... 1(2) 62
Comprehensive Handbook of Ternary Alloy Phase Diagrams ..... 1(2) 36-40
Higher-Order Phase Diagram Activities ..... 2(3) 281-285
High Temperature Battery ..... 2(2) 158
Hildeman, G. J.: Powder Metallurgy Alloy Research ..... 2(2) 158
Hillert, M.
Definition of Terms for a Thermodynamic Data Bank — Part 1 ..... 2(2) 231-232
Discussion of Methods of Calculating Phase Diagrams ..... 2(3) 265-268
Discussion on the Hierarchy of Metastable Phases ..... 2(2) 171
Hubbard, C. R.: The Pearson Symbol ..... 2(2) 153-157
Huffstutler, Jr., M. C.: Corrosion Resistance of Lead ..... 2(2) 158
IITRI Revision of Binary Phase Diagrams ..... 1(1) 25-26
Inden, G., The Effect of Continuous Transformations on Phase Diagrams ..... 2(4) 412-422
Interactive Computer Graphics for Storing Phase Diagrams ..... 1(1) 19-22
Interactive Ternary Phase Diagram Display Program, An ..... 1(2) 34-36
Kaufman, L.: CALPHAD IX, May 1980 ..... 1(2) 18-20
King, H. W.: Atomic Size Parameters for the Elements .. 2(4) 527-528
Crystal Structures of the Elements at 25 °C ..... 2(3) 401-402
Lamoreaux, R. H. *See Brewer, L.*
Lasserre, A.: Comment on Composition Range of 60 to 80 at. % Ni (Mn-Ni) ... 2(1) 111-112
Laughlin, D. E.
Be-Cu (Beryllium-Copper) System: Metastable Solvi ..... 2(1) 28
See also Chakrabarti, D. J.
Lindenberger, W. S. *See Huffstutler, Jr., M. C.*
Lukas, H. L.
Ag-Bi-Pb (Silver-Bismuth-Lead) System ..... 1(2) 64-67
Bi-Pb (Bismuth-Lead) System ..... 1(2) 67-69
Comprehensive Handbook of Ternary Alloy Phase Diagrams ..... 1(2) 36-40
Marazza, R. *See Ferro, R.*
Massalski, T. B.
The Binary Phase Diagram Evaluation Program ..... 1(2) 32-34
Metastable Al-Cu ..... 1(1) 28-30
Materials Recycling ..... 1(1) 16
Melting Points of the Elements (IPTS-68) ..... 2(1) 145-146
Mikula, A. *See Chang, Y. A.*
Minges, M. L.: CODATA Task Group on Thermophysical Properties of Solids ..... 1(2) 20-22
Miodownik, A. P.:
Brazing ..... 2(1) 27
The Effect of Magnetic Transformations on Phase Diagrams ..... 2(4) 406-412
MTDS Begins Development of Aqueous Solution Databank ..... 2(2) 160
Murray, J. L.
Cr-Ti (Chromium-Titanium) System ..... 2(2) 174-181
Fe-Ti (Iron-Titanium) System ..... 2(3) 320-334
Hf-Ti (Hafnium-Titanium) System ..... 2(2) 181-185
Interactive Computer Graphics for Storing Phase Diagrams ..... 1(1) 19-22
Mn-Ti (Manganese-Titanium) System ..... 2(3) 334-343
Mo-Ti (Molybdenum-Titanium) System ..... 2(2) 185-192
Nb-Ti (Niobium-Titanium) System ..... 2(1) 55-61
Re-Ti (Rhenium-Titanium) System ..... 2(4) 462-466
Ta-Ti (Tantalum-Titanium) System ..... 2(1) 62-66
Tc-Ti (Technetium-Titanium) System ..... 2(4) 466-469
Ti-W (Titanium-Tungsten) System ..... 2(2) 192-196
Ti-Zr (Titanium-Zirconium) System ..... 2(2) 197-201
Ti-V (Titanium-Vanadium) System ..... 2(1) 48-55
Nash, P.: An Interactive Ternary Phase Diagram Display Program ..... 1(2) 34-36
Nedzi, L. A.: Conventions for Composition Conversion ..... 1(1) 17-18
Neumann, J.P. *See Chang, Y. A.*
New Atlases of Pourbaix Diagrams for Metalgas Equilibria ..... 2(1) 25
New Journal Inaugurated ..... 1(2) 20
New Section on Phase Diagrams Announced ..... 2(1) 24
Obtaining Inferences About Relative Stability and Metastable Phase Sequences From Phase Diagrams ..... 1(2) 27-32
Okada, M.,
Fe-Cr-Co Permanent Magnet Alloys ..... 2(4) 423
Ongoing Phase Diagram Research in China ..... 2(3) 281
Orser, D. J.: Interactive Computer Graphics for Storing Phase Diagrams .... 1(1) 17-18
Parks, J. M.: Materials Recycling .... 1(1) 16
Pearson Symbol, The ..... 2(2) 153-157, 2(4) 441-442
Pelton, A. D. *See Ashtakala, S.*
Periodic Chart *See Properties of the Elements*
Petzow, G.: Comprehensive Handbook of Ternary Alloy Phase Diagrams ..... 2(1) 36-40

Phase Diagram Activities
Alloy Phase Diagram Data Committee of the Metals Society of London, The ... 1(2) 17
CALPHAD IX, May 1980 ..... 1(2) 18-20
CALPHAD X, May 1981 ..... 2(4) 424-426
Chinese Compilation of Precious Metal Alloy Phase Diagrams ..... 2(1) 26
CODATA Task Group on Thermophysical Properties of Solids ..... 1(2) 20-22
Higher-Order Phase Diagram Activities ..... 2(3) 281-285
MTDS Begins Development of Aqueous Solution Databank ..... 2(2) 160
New Atlases of Pourbaix Diagrams for Metalgas Equilibria ..... 2(1) 25
New Journal Inaugurated ..... 1(2) 20
New Section on Phase Diagrams Announced ..... 2(1) 24
Ongoing Phase Diagram Research in China ..... 2(3) 281
Rare-earth Information Center ... 2(1) 159
Ternary Alloy Phase Diagram Activity at Max-Planck-Institut für Metallforschung ..... 1(1) 14

Phase Diagram Bookshelf
Beryllium Science and Technology ..... 1(2) 25
Binary and Multicomponent Copper-Based Systems ..... 1(2) 24
Book Review by A. Prince ..... 1(2) 24
Excerpt from the Preface ..... 2(2) 169
Table of Contents ..... 2(2) 169-170
Bulletin of Chemical Thermodynamics ..... 1(2) 25
Calculation of Phase Diagrams and Thermochemistry of Alloy Phases 1(1) 15
CALPHAD: Computer Coupling of Phase Diagrams and Thermochemistry. 1(1) 15
Chemical Thermodynamics of Actinide Elements and Compounds, Part 5 ..... 2(4) 427
Diagrammy Sostoyaniya Dvoynykh i Troynykh Sistem (Phase Diagrams of Binary and Ternary Systems) .... 2(1) 4
Handbook on Ferromagnetic Materials ..... 2(3) 298
Handbook of Binary Metallic Systems — Structures and Properties ..... 1(1) 15
Handbook of Binary Phase Diagrams ..... 1(1) 14
Handbook of Refractory Compounds. 2(1) 4
Handbook of the Physics and Chemistry of Rare Earths ..... 1(1) 15
High Pressure Science and Technology ..... 2(1) 4
Index to Binary Phase Collections.. 1(1) 14
Industrial Use of Thermochemical Data, The ..... 2(1) 4
Journal of Educational Modules for Materials Science and Engineering ..... 2(4) 426
Manganese Phase Diagrams ..... 1(2) 25
Metal Hydrides, 1980 ..... 2(3) 298
Metallurgical Thermochemistry .... 2(1) 4
Metallurgy of Osmium ..... 2(4) 426
Molybdenum: Physico-Chemical Properties of Its Compounds and Alloys ..... 1(2) 24
Multicomponent Alloy Constitution Bibliography 1955–1973 ..... 1(2) 25
Multicomponent Alloy Constitution Bibliography 1974–1977 ..... 2(3) 297
Phase Diagrams ..... 2(4) 427
Phase Diagrams and Thermodynamic

Properties of Ternary Copper-Metal Systems ... 1(1) 15
Phase Diagrams and Thermodynamic Properties of Ternary Copper-Sulfur-Metal Systems ... 1(1) 15
Phase Diagrams of Aluminum and Magnesium Alloy Systems ... 1(2) 24
Phase Stability in High Temperature Alloys ... 2(4) 427
Phase Theory: The Thermodynamics of Heterogeneous Equilibria ... 2(3) 298
Physical Chemistry of Ruthenium and Its Alloys ... 1(2) 25
Refractory Compounds of Rare Earth Metals ... 2(3) 298
Selected Properties of Hydrogen (Engineering Design Data) ... 2(3) 298
Selected Values of Chemical Thermodynamic Properties: Compounds of Uranium, Protactinium, Thorium, Actinium, and the Alkali Metals ... 2(3) 297
Selected Values of the Thermodynamic Properties of Binary Alloys ... 1(1) 14
Silicides ... 2(4) 427
Silver: Alloys and Bimetals on Its Basis ... 1(2) 24
Solid State Phase Transformations in Metals and Alloys ... 2(4) 427
Structure and Properties of Light Alloys ... 2(4) 427
Study and Use of Rhenium Alloys ... 1(1) 15
Synthesis and Properties of Metastable Phases ... 2(3) 298
Theory of Alloy Phase Formation, The ... 1(1) 15
Thermodynamics of Alloys ... 2(3) 298
Titanium '80 ... 2(1) 4
Titanium Metal Science and Technology ... 1(2) 25
Powder Metallurgy Alloy Research ... 2(2) 158
Prince, A.
Ag-Au-Ge (Silver-Gold-Germanium) System ... 1(2) 44
Ag-Au-Pb (Silver-Gold-Lead) System ... 1(2) 54-56
Au-Pb (Gold-Lead) System ... 1(2) 59-61
Comprehensive Handbook of Ternary Alloy Phase Diagrams ... 1(2) 36-40
To Speculate or Not to Speculate ... 2(2) 149-152
Properties of the Elements
Atomic Size Parameters for the Elements 2(4) 527-528
Crystal Structures of the Elements at 25 °C ... 2(3) 401-402
Melting Points of the Elements (IPTS-68) ... 2(1) 145-146
Standard Atomic Weights of the Elements (1979) ... 1(2) 151-152
Thermodynamic Properties of the Elements ... 2(2) 261-262
Rare Earth — Aluminum Alloys ... 2(2) 158
Rare-earth Information Center ... 2(2) 159
Raynor, G. V.
Alloy Phase Diagram Data Committee of the Metals Society of London ... 1(2) 17
Cr-Fe (Chromium-Iron) System ... 2(1) 99-100
Cr-Fe-Ni (Chromium-Iron-Nickel) System ... 2(1) 89-99
Cr-Ni (Chromium-Nickel) System ... 2(1) 100-101
Fe-Ni (Iron-Nickel) System ... 2(1) 102
Recent Literature
Nov-Dec 1979 and Jan 1980 ... 1(1) 6-13
Feb-Apr 1980 ... 1(2) 4-16
May-Sep 1980 ... 2(1) 5-24
Oct-Dec 1980 and Jan 1981 ... 2(2) 162-168
Feb-Jun 1981 ... 2(3) 287-297
Jul-Oct 1981 ... 2(4) 428-438
Reynaud, F. *See Lasserre, A.*
Rhines, F. N.
Soldering ... 1(1) 16
Steel Heat Treating ... 1(1) 16
Carbide Tools ... 2(1) 27
Furnace Heating Elements ... 2(1) 27
Rivlin, V. G. *See Raynor, G. V.*
Roder, H. M.: H_2 (Hydrogen) System ... 2(3) 362-366
Scheuermann, C. M.: Eutectic Superalloys ... 1(2) 26
Sharma, R. A.: High Temperature Battery ... 2(2) 158
Shunk, F. A. *See Elliott, R. P.*
Singhal, S. P.: Au-Pt (Gold-Platinum) System ... 2(1) 66-70
Smith, J. F.
Ag-V (Silver-Vanadium) System ... 2(3) 343-344
Au-V (Gold-Vanadium) System ... 2(3) 344-347
Cr-V (Chromium-Vanadium) System ... 2(4) 469-473
Cu-V (Copper-Vanadium) System ... 2(3) 348-351
Ga-V (Gallium-Vanadium) System ... 2(2) 201-205
Ge-V (Germanium-Vanadium) System ... 2(2) 205-209
Mn-V (Manganese-Vanadium) System ... 2(4) 473-478
Pb-V (Lead-Vanadium) System ... 2(2) 209-210
Si-V (Silicon-Vanadium) System ... 2(1) 42-48
Sn-V (Tin-Vanadium) System ... 2(2) 210-214
V (Vanadium) System ... 2(1) 40-41
Soldering ... 1(1) 16
Some Additional Thoughts on Metastable Hierarchies ... 2(2) 171-172
Standard Atomic Weights of the Elements (1979) ... 1(2) 151-152
Steel Heat Treating ... 1(1) 16
Tan, Q.-L.: Ongoing Phase Diagram Research in China ... 2(3) 281
Tanner, L. E. *See Laughlin, D. E.*
Ternary Alloy Phase Diagram Activity at Max-Planck-Institut für Metallforschung ... 1(1) 14
Thermal Stability Data of Amorphous Binary Alloys ... 2(3) 269-280
Thermal Stability Data of Noncrystalline Elemental Solids ... 1(1) 23-24
Thermodynamic Properties of the Elements ... 2(2) 261-262
To Speculate or Not to Speculate ... 2(2) 149-152
Use of Phase Diagrams in Hardfacing Alloy Research ... 2(3) 280
Utilization of Phase Diagrams
Al-Fe-Mn Austenitic Stainless Alloy, An ... 1(2) 26
Alloy Solidification in Systems Containing a Miscibility Gap ... 2(2) 159
Alloys in Metastable Equilibrium ... 1(2) 26
Application of Phase Diagrams in Solidification and Casting Problems ... 2(4) 423-424
Brazing ... 2(1) 27
Carbide Tools ... 2(1) 27
Casting ... 2(1) 26
Corrosion Resistance of Lead ... 2(2) 158
Eutectic Superalloys ... 1(2) 26
Fe-Cr-Co Permanent Magnet Alloys ... 2(4) 423
Furnace Heating Elements ... 2(1) 27
High Temperature Battery ... 2(2) 158
Materials Recycling ... 1(1) 16
Powder Metallurgy Alloy Research ... 2(2) 158
Rare Earth-Aluminum Alloys ... 2(2) 158
Soldering ... 1(1) 16
Steel Heat Treating ... 1(1) 16
Use of Phase Diagrams in Hardfacing Alloy Research ... 2(3) 280
Wallace, J. F.: Casting ... 2(1) 26
Wang, R.
Thermal Stability Data of Amorphous Binary Alloys ... 2(3) 269-280
Thermal Stability Data of Noncrystalline Elemental Solids ... 1(1) 23-24
Waterstrat, R. M.
Binary Phase Diagrams of Transition Elements (includes wall chart) ... 2(1) 35-38
Cr-Mn and Fe-Mn Phase Diagrams ... 2(3) 299-300
Willey, L. A.
Al-Cu (Aluminum-Copper) System ... 1(1) 27-30
Williams, R. O.: Cr-Fe, Fe-Ni and Cr-Ni Phase Diagrams ... 2(3) 299